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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Greenberger et al. Art Unit : Unknown
 Serial No. : To Be Determined Examiner : Unknown
 Filed : Herwith
 Title : METHODS OF PREPARING BONE MARROW STROMAL CELLS FOR USE
 IN GENE THERAPY



Commissioner for Patents
 Washington, D.C. 20231

INFORMATION DISCLOSURE STATEMENT

Applicant submits the references listed on the attached form PTO-1449, copies of which are not enclosed.

Under 35 USC §120, this application relies on the earlier filing date of application Serial Number 09/107,051, filed on June 30, 1998 which is a continuation of U.S. Serial Number 08/581,053, filed December 23, 1997. The references listed on the attached PTO Forms 1449 and PTO Forms 892 were submitted to and/or cited by the Office in the prior application and, therefore, are not provided in this application.

This statement is being filed with the application. Please apply any charges or credits to Deposit Account No. 06-1050.

Respectfully submitted,

Date: August 4, 2000

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I hereby certify under 37 CFR §1.10 that this correspondence is being deposited with the United States Postal Service as Express Mail Post Office to Addressee with sufficient postage on the date indicated below and is addressed to the Commissioner for Patents, Washington, D.C. 20231.

August 4, 2000
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Matthew Morrissey
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Matthew Morrissey
 Typed or Printed Name of Person Signing Certificate

SUBSTITUTE FORM PTO-1449
(MODIFIED)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.
07787/004001SERIAL NO.
08/581,053INFORMATION DISCLOSURE
STATEMENT BY APPLICANT
(Use several sheets if necessary)APPLICANT
Joel S. Greenberger et al.FILING DATE
December 29, 1995GROUP
1816

(37 CFR 1.98(b))

U.S. PATENT DOCUMENTS

| EXAMINER INITIAL | PATENT NUMBER | ISSUE DATE | PATENTEE | CLASS | SUBCLASS | FILING DATE IF APPROPRIATE |
|---------------------|---------------|---------------|----------|-------|----------|-------------------------------|
| AA | | | | | | |

FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

| | DOCUMENT NUMBER | PUBLICATION DATE | COUNTRY OR PATENT OFFICE | CLASS | SUBCLASS | TRANSLATION YES NO |
|----|-----------------|---------------------|-----------------------------|-------|----------|-----------------------|
| AB | EP 0 381 490 A2 | 08.08.90 | Europe | | | |
| AC | PCT/US95/16991 | 29.12.95 | PCT Search Report | | | |

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|----|---|
| AD | Anklesaria et al., "Engraftment of clonal bone ... hematopoietic recovery from total body irradiation", <u>Proc. Natl. Acad. Sci., USA</u> , 84:7681-7685 (November 1987). |
| AE | Anklesaria et al., "Expression of a Selectable ... Bone Marrow Cultures, <u>Experimental Hematology</u> , 15:195-202, (1987). |
| AF | Ding et al., "The Stromal Cell as a Vehicle for Ex Vivo Gene Transfer", <u>Blood</u> , 86:10 Suppl. 1, page 409A, Abstract 1625, (1995). |
| AG | Drize et al., "Gene Therapy Model ... Hematopoietic Microenvironment", <u>Leukemia</u> , 6(Supp.3):174S-175S, (1992). |
| AH | Foley et al., "Effective Cytokine ... Adenoviral Vectors", <u>Journal Cellular Biochemistry</u> , 21A:406, Abstract C6-415, (1995). |
| AI | Huss et al., "Homing and Immunogenicity ... MHC Class II Genes, <u>Cell Transplantation</u> , 4:483-491 (1995). |
| AJ | Keating, "Bone marrow stromal cell transplantation", <u>Bone Marrow Transplantation</u> , 15(Supp.1):S9-S14, (1995). |
| AK | Lazarus et al., "Ex vivo expansion and implications for therapeutic use", <u>Bone Marrow Transplantation</u> , 16:557-564, (1995). |
| AL | Li et al., "Retroviral-mediated gene ... in vivo survival in SCID mice", <u>Eur. J. Haematol</u> , 55:302-306 (1995). |
| AM | Luskey et al. "Gene Transfer into ... and Bone Marrow Stromal Cells, <u>Ann. N.Y. Acad. Sci.</u> , 612:398-406, (1990). |
| AN | Roux et al., "Retrovirus-mediated gene ... mouse bone marrow stromal cells", <u>Oncogene</u> , 6:2155-2160, (1991). |

EXAMINER

DATE CONSIDERED

EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

SUBSTITUTE FORM PTO-1449
(MODIFIED)U.S. DEPARTMENT OF COMMERCE
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07787/004001SERIAL NO.
08/581,053INFORMATION DISCLOSURE
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APPLICANT
Joel S. Greenberger et al.FILING DATE
December 29, 1995

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U.S. PATENT DOCUMENTS

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| | AA | 4 | 7 | 2 | 1 | 0 | 9 | 6 | 01/26/88 | Naughton et al. | 128 | 1 R | |
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| | | | | | | | YES | NO |
| | AL | PCT/US95/16991 | 12/09/97 | PCT Written Opinion | | | | |
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| | AA | 4 | 1 | 1 | 7 | 8 | 8 | 1 | 10/03/78 | Williams et al. | | | |
| | AB | 5 | 3 | 9 | 9 | 4 | 9 | 3 | 03/21/95 | Emerson et al. | | | |

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| AC | WO 91/18620 | 12/12/91 | PCT | | | |

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| AE | Brunner et al., 1993, Blood 81:631-638 |
| AF | Gilbert et al., 1994, Eur. J. Haematol. 53:93-99 |
| AG | Kimura et al., 1988, Br. J. Haematol 69:9-12 |
| AH | Motta et al., 1993, Bone Marrow Trans. 12:177 |
| AI | Nicol et al., 1995, Blood 86(Supp. 1):120a, Abstract No. 469 |
| AJ | Sorger et al., 1995, In Vitro Cell. Dev. Biol. - Animal 31:671-683 |
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APPLICANT
Joel S. Greenberger et al.FILING DATE
December 29, 1995GROUP
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| | AA | 5 | 5 | 9 | 1 | 6 | 2 | 5 | | 01/07/97 | Gerson et al. | | | |
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DATE CONSIDERED

EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-892
(REV. 2-92)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

SERIAL NO.

581,053

GROUP/ART UNIT

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ATTACHMENT
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NOTICE OF REFERENCES CITED

APPLICANT(S)

Greenberger et al

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| Notice of References Cited | | | Application No. 09/107,051 | | Applicant(s) Greenberger et al. | |
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| Page 1 of 1 | | | | | | |

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| NON-PATENT DOCUMENTS | |
|----------------------|---|
| | DOCUMENT (Including Author, Title, Source, and Pertinent Pages) |
| U | Lozier et al., Human Gene Therapy, Vol. 5, pages 313-322. |
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